

Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

Features and Benefits

Frequency range: 40MHz Supply voltage: 5.0V Steady state: 1.5W Max Output waveform: Sinewave Frequency stability vs. operating temperature: ±10.0ppb Aging: ±100ppb per year Phase noise@100Hz: -130dBc/Hz Operating temperature: -30°C to +70°C Size:25.7x25.7x12.7mm

Typical Applications

Small Cell, Portable Telecommunication Device Test and Instrumentation Synthesizer, Digital switch, Reference Timing Circuit Packet Timing Protocol ATCOM System

Description

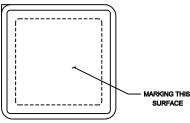
OCXO2525BM-40MHz-C-V is designed for applications where exceptional frequency stability and timing is required. It has both excellent temperature performance and short-term stability. These characteristics make it an excellent choice for timing applications.

GLASS STANDOFF

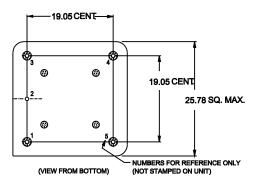
(4 PLACES)

Mechanical Drawing & Pin Connections

Drawing No: MD210013-1







F	PIN CONNECTIONS						
PIN	FUNCTION						
1	Output						
2	0 Volts & Case						
3 (See Note 1)	VCO Input N.C.						
4 (See Note 1)	Reference Voltage N.C. Oven Monitor						
5	Supply Voltage						

12.70

5.08 MIN.

0.80 DIA. PIN (5 PLACES)

0.66

Note 1. If the specification does not specify parameters for either PIN3 or PIN4 then that respective PIN is NOT internally CONNECTED.

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Dynamic Engineers reserves the right to make changes to the company datasheet(s) along with other information contained inside; such as data tables and araphs without notification to potential customers who may have earlier revisions in their possession.



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Specifications

Oscillator	Sym	Condition	Value			Unit	Note		
Specification			Min.	Тур.	Max.				
Operational Frequency	Fnom			40		MHz			
RF Output									
Waveform				Sinewave					
Level			+5			dBm			
Load				50		ohm			
Harmonics					-30	dBc			
Spurious					-70	dBc			
Power Supply									
Supply Voltage	V _{cc}		+4.75	+5.0	+5.25	V			
Steady state		+25°C			1.5	W			
Current		@ turn on			800	mA			
Frequency Stability									
Versus Operating Temperature Range		-30°C to +70°C, ref to +25°C	-10		+10	ppb			
Initial Frequency Accuracy		 #25 ±1°C; after turning on power 15 ±1 minutes; <=90 days following date code 	-0.3		+0.3	ppm			
Versus supply voltage		±5% change	-10		+10	ppb			
Versus Load		±5% change	-10		+10	ppb			
Short Term		1 sec		0.02		ppb/s	Root Allan		
Short Term		10 sec		0.04		ppb/10s	variance		
Aging Per Day			-1.0		+1.0	ppb			
Aging 1 st Year		after 30 days	-100		+100	ppb			
Aging 10 Years			-0.8		+0.8	ppm			
Warm-up		In 5 minutes @25±1°C	-50		+50	ppb	Reference to 1 hour		
Phase Noise		100Hz		-130		dBc/Hz			
Environmental, Mechanical Conditions									
Operating temperature range	-30°C to -	-30°C to +70°C							
Storage temperature range	-55°C to +125°C								
Humidity	MIL-STD-202, Method 103, Test Condition B. 95% RH @ +40°C, non-condensing, 96 hours								
Vibration (non-operating)	MIL-STD-202, Method 201, 0.06" Total p-p, 10 to 55 Hz								
Shock (non-operating)	MIL-STD	202, Method 213, Test Cor	ndition J. 30)g, 11ms, ha	alf-sine				